

This listing of claims will replace all prior versions and listing of claims in the application:

Listing of Claims:

1. (original) Apparatus for formation of polarizers from lyotropic liquid crystals (LLC) based on at least one organic compound comprising:
 - at least one system for application of LLC onto at least one substrate supported on at least one substrate holder,
 - at least one system for applying orienting force on LLC and/or on the molecules and/or on the molecular supra-complexes of the organic compound, and
 - a means for supporting said systems with the possibility of relative movement between the systems and said at least one substrate holder,
 - wherein said at least said one system for applying orienting force comprises at least one plate, one end of which is fixed such that during relative movement of the plate and the substrate holder at least a part of the plate's surface travels unrestricted over the surface of the applied film providing an external orienting force on LLC and/or molecules and/or supra-molecular complexes of the organic compound.
 2. (original) Apparatus according to Claim 1 wherein said at least one system for application of the LLC includes means of feeding the LLC onto the substrate.
 3. (original) Apparatus according to Claim 2 wherein said at least one means of feeding LLC comprises at least one injector.
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4. (original) Apparatus as in Claim 2 wherein said at least one means for feeding LLC comprises at least one roller.
 5. (original) Apparatus as in Claim 2 which includes at least one channel with metering dispenser.
 6. (original) Apparatus according any of Claims 1-3 wherein at least one system for application of the LLC comprises at least one element for application LLC onto the substrate and at least one roller.
 7. (original) Apparatus as in Claim 2 in which said at least one system for application of LLC onto the substrate includes at least one doctor blade or rod.

8. (original) Apparatus according to Claim 6 wherein on the surface of at least one roller there is a relief pattern.

9. (original) Apparatus according to any of Claims 1, 2, or 7 wherein at least a part of the surface of the plate possesses hydrophilic or hydrophobic qualities.

10. (original) Apparatus according to any of Claims 1, 2, or 7 wherein at least on a part of the surface of the plate(s) there is a relief (pattern).

11. (original) Apparatus according to any of Claims 1, 2, or 7 wherein the plate(s) is (are) made out of a polymer material or rubber or at least two different materials comprising separate parts of the plate(s) and/or comprising the layers of the plate(s).

12. (original) Apparatus according to Claim 2 wherein at least one system of application is installed with the possibility of vertical movement relative to the substrate holder(s).

13. (original) Apparatus according to Claim 2 wherein at least one system of application is installed with the possibility of horizontal movement relative to the substrate holder.

14. (original) Apparatus according to Claim 1 wherein at least one system of application is implemented as at least one fixed roller, which is installed with the possibility of movement to force the plate to the film under formation.

15. (original) Apparatus according to Claim 1 wherein the plate is implemented in a rectangular shape.

16. (original) Apparatus according to Claim 1 wherein it is additionally supplied with at least one anti-vibration means.

17. (original) Apparatus according to Claim 1 wherein it is additionally supplied with a system of automatic control over the process of formation.

Claims 18-29 are withdrawn.

30. (original) The apparatus according to Claim 1 wherein one end of the plate(s) is (are) fastened on one and/or different holders with the system(s) of application or directly on at least one system of application.

31. (original) The apparatus according to Claim 1 wherein at least one system of application is implemented as at least one fixed roller, which is installed with the possibility of movement to provide clasping of the plate(s) to the film(s) under formation.

32. (original) The apparatus according to Claim 1 wherein at least one system of orienting force is additionally supplied with at least one means of clasping of the plate(s) to the film(s) under formation.

Claims 33-39 are withdrawn.

Please add new Claims 40-58.

40. (new) Apparatus according to Claim 1 further comprising:
at least one system of feeding solvent of the film's material, implemented in at least one directing channel, and
at least one discharging and/or vacuum system for removal of the solvent and dissolved LLC.

41. (new) Apparatus according to Claim 40 wherein the system of feeding and the system of removal are installed so that their longitudinal axes are situated in the direction perpendicular to the plane of the substrate holder.

42. (new) Apparatus according to Claim 40 or 41 wherein the system of feeding and the system of removal are mounted for vertical and/or horizontal movement.

~~43. (new) Apparatus according to Claim 40 further including a substrate holder~~
wherein the system of feeding and the systems of removal on one hand, and the substrate holder on the other, are mounted for relative movement with respect to one another.

44. (new) Apparatus according to Claim 40 wherein the system of feeding and the system of removal are mounted for relative movement with respect to one another.

45. (new) Apparatus according to Claim 40 wherein the system of feeding and the systems of removal comprise coaxial tubes, and the inner diameter of the tube for removal is larger than the inner diameter of the tube for feeding of solvent.

46. (new) Apparatus according to Claim 40 wherein the system(s) of feeding and the systems of removal are mounted at a fixed distance from each other.

47. (new) Apparatus for formation of polarizers from lyotropic liquid crystals (LLC) based on at least one organic compound comprising:

at least one system of local removal of polarizing film's material, obtained from LLC of at least one organic compound,

at least one substrate holder, and

at least one system for providing relative movement between the substrate holder and said at least one system for formation and at least one system for local removal of the polarizing film.

48. (new) Apparatus according to Claim 47 wherein at least one apparatus for formation of films is implemented according to Claim 1.

49. (new) Apparatus according to Claim 48 wherein at least one system of local removal is implemented according to Claim 40.

50. (new) Apparatus according to Claim 49 wherein the technological production line is placed in a chamber and is implemented in a single casing.

51. (new) Apparatus according Claim 49 wherein it is additionally equipped with at least one means of drying.

52. (new) Apparatus according to any of Claims 47 to 51 wherein at least one system of formation of films and at least one system of local removal and at least one substrate holder are situated on a single or different bases.

53. (new) Apparatus according to any of Claims 47 to 51 wherein it is additionally equipped with at least one manipulator for transfer and/or transportation of products.

54. (new) Apparatus according to any of Claims 47 to 51 wherein it additionally comprises at least one table for between-operational transfer and/or storing.

55. (new) Apparatus according to Claim 51 wherein at least one means of drying is implemented as a heater or a system of air blowing or a system of radiation.

56. (new) Apparatus according to any of Claims 47 to 51 wherein it additionally comprises at least one anti-vibration system.

57. (new) Apparatus according to any of Claims 47 to 51 wherein it additionally equipped with a system of automatic control and/or a system of control over the process.

58. (new) Apparatus according to Claim 40, comprising at least one processing channel situated between at least one unit for feeding the solvent and at least one unit for removing the solvent, which is open at least partially from the side of the substrate.